## IN THE CLAIMS:

The following listing of claims replaces all prior versions

1.-17. (Cancelled)

18. (Currently Amended) A method of treating a human liver cancer which comprises the intrahepatic administration of a therapeutically effective amount of methoxymorpholino doxorubicin (MMDX) to a patient in need thereof, wherein said MMDX is administered in a dose ranging from about 100 mcg/m<sup>2</sup> to about 1000 mcg/m<sup>2</sup> as an infusion of from about 15 minutes to about 30 minutes every 4 weeks.

19. (Cancelled)

- (Previously Presented) The method according to claim 18, wherein the liver tumor is a tumor primarily confined to the liver.
- (Previously Presented) The method according to claim 20, wherein the tumor primarily confined to the liver is a hepatocellular carcinoma (HCC) or a cholangiocarcinoma.
- (Previously Presented) The method according to claim 18, wherein the tumor is a liver metastasis.
- (Previously Presented) The method according to claim 18, wherein the intrahepatic administration of MMDX is via the hepatic artery.

24.-25. (Cancelled)

- 26. (Previously Presented) The method according to claim 18, wherein MMDX is administered with an agent, which remains selectively in a liver tumor after its injection into the hepatic artery.
- 27. (Previously Presented) The method according to claim 26, wherein the agent is iodized oil.
- 28. (Cancelled)
- 29. (Currently Amended) The method according to claim <u>18</u> <u>28</u>, wherein MMDX is administered in a dose ranging from about 100 mcg/m² to about 800 mcg/m².
- 30. (Previously Presented) The method according to claim 29, wherein the dose is 200 mcg/m<sup>2</sup>.
- 31.-33. (Cancelled)
- 34. (Previously Presented) A pharmaceutical composition for the treatment of a human liver cancer by intrahepatic administration via injection into the hepatic artery comprising:
- a) methoxymorpholino doxorubicin (MMDX) in an amount sufficient to provide a dosage of about 100 mcg/m² to about 1000 mcg/m²; and
- b) a pharmaceutically acceptable agent which remains selectively in a liver tumor after its injection into the hepatic artery.
- 35. (Previously Presented) The pharmaceutical composition of claim 34 wherein the MMDX is in an amount sufficient to provide a dosage of about 100mcg/m<sup>2</sup> to about 800 mcg/m<sup>2</sup>.
- 36. (Previously Presented) The pharmaceutical composition of claim 34 wherein the MMDX is in an amount sufficient to provide a dosage of about 200mcg/m².

- (Previously Presented) The pharmaceutical composition of claim 34 wherein the agent is iodized oil.
- 38. (New) The method according to Claim 18 wherein the MMDX is further administered as an infusion of from about 15 minutes to about 30 minutes every 4 weeks.
- 39. (New) The method according to Claim 18 wherein the MMDX is further administered as a 5-10 minute bolus every 8 weeks.
- 40. (New) A method of treating a human liver cancer wherein the liver cancer is a tumor primarily confined to the liver and is selected from hepatocellular carcinoma (HCC) or a cholangiocarcinoma, or wherein said liver cancer is a liver metastasis, comprising the intrahepatic administration to a patient in need thereof, via the hepatic artery, of a therapeutically effective amount of methoxymorpholino doxorubicin (MMDX) with iodized oil, wherein said MMDX is administered as an infusion of from about 15 minutes to about 30 minutes every 4 weeks in a dose ranging from about 100 mcg/m² to about 1000 mcg/m².
- 41. (New) The method according to Claim 40 wherein said MMDX is administered in a dose ranging from about 100 mcg/m<sup>2</sup> to about 800 mcg/m<sup>2</sup>.
- 42. (New) The method according to Claim 41 wherein said MMDX is administered in a dose of 200 mcg/m<sup>2</sup>.